Nuclear Engineering and Design 116 (1989) 443–444
North-Holland, Amsterdam

AUTHOR INDEX TO VOLUME 116

Acker, D., see Moulin 116 (1989) 255
Ahmad, J., see Rosenfield 116 (1989) 161
Aifantis, E.C., see Bammann 116 (1989) 355
Ainsworth, R.A., Structural assessments of creep crack growth 116 (1989) 321
Arai, T., see Ishiguro 116 (1989) 61
Atluri, S.N., Computational techniques for inelastic stress and fracture analyses 116 (1989) 329

Bammann, D.J. and Aifantis, E.C., A damage model for ductile metals 116 (1989) 355
Bensussan, Ph., see Piques 116 (1989) 293
Berg, H.P., Requirements on waste packages resulting from mechanical and thermal impact during the operational phase of a waste repository 116 (1989) 37
Bernard, A., see Hittinger 116 (1989) 315
Bräuer, V., Heusermann, S. and Pahl, A., Rock stress measurements in the Grimsel Underground Rock Laboratory and their geological interpretation 116 (1989) 21
Breitbach, G., Over, H.H. and Schubert, F., Experimentally verified creep ratchetting analysis 116 (1989) 231

Cailletaud, G., see Contesi 116 (1989) 265
Carter, K.F., see Ponter 116 (1989) 239
Cesari, F.G., Ferrari, G., Ghia, S. and Padovani, R., In-plane bending test of a piping elbow 116 (1989) 215
Cialone, H.J., see Rosenfield 116 (1989) 161
Clancy, R.M., see Key 116 (1989) 101
Cocks, A.C.F. and Ponter, A.R.S., Creep deformation and failure under cyclic thermal loading 116 (1989) 363
Combescure, A., see Moulin 116 (1989) 255
Contesti, E. and Cailletaud, G., Description of creep–plasticity interaction with non-unified constitutive equations: Application to an austenitic stainless steel 116 (1989) 265

D'Angelo, D., see Regis 116 (1989) 399
Dawson, P., Some considerations of the use of concrete for radioactive waste repositories 116 (1989) 45

Egger, P., Study of excavation induced rock damage at the Grimsel Underground Rock Laboratory 116 (1989) 11

Fan Jinghong, Huang Jun, and Zhen Xiangguo, Microscopically based constitutive relations for damage mechanics and creep–plasticity interaction 116 (1989) 307
Ferrari, G., see Cesari 116 (1989) 215
Fouet, J.M., see Hittinger 116 (1989) 315
Frelat, J., see Inglebert 116 (1989) 281

Gauthier, J.P. and Petrequin, P., High cycle fatigue of austenitic stainless steels under random loading 116 (1989) 343
Ghia, S., see Cesari 116 (1989) 215
Gommlich, G., see Schneefuss 116 (1989) 25
Guionnet, C., Modelization of ratcheting in biaxial experiments 116 (1989) 223

Heusermann, S., see Bräuer 116 (1989) 21
Hittinger, M., Ravier, P., Bernard, A. and Fouet, J.M., Expert system driven software 116 (1989) 315
Huang Jun, see Fan Jinghong 116 (1989) 307

Imazu, A., see Watashi 116 (1989) 423
Inglebert, G. and Frelat, J., Quick analysis of inelastic structures using a simplified-method 116 (1989) 281
Ishiguro, K., Kawamura, K., Sonobe, H., Nodaka, M., Arai, T., Yusa, Y. and Tsunoda, N., Experimental approach to performance of engineered barriers under repository conditions 116 (1989) 61

Jayakumar, T., see Kalyanasundaram 116 (1989) 181

Kalyanasundaram, P., Jayakumar, T., Raj, B., Murthy, C.R.L. and Krishnan, A., Acoustic emission technique for leak detection in an end shield of a pressurized heavy water reactor 116 (1989) 181
Kanazawa, S., see Watashi 116 (1989) 423
Kawamura, K., see Ishiguro 116 (1989) 61
Key, S.W., Petney, S.V., Clancy, R.M., The impact modeling of structures using solid, shell, and membrane finite elements 116 (1989) 101
Knecht, B. and Van Dorp, F., Concept and design of engineered barriers in Swiss repository projects 116 (1989) 33

Knowles, N.C., On the reliability of computer predictions of the geomechanical behaviour of rock-salt 116 (1989) 57
Kocamustafaogullari, G., see Schwartzbeck 116 (1989) 135
Koide, A., see Watashi 116 (1989) 423
Krishnan, A., see Kalyanasundaram 116 (1989) 181

Landow, M.P., see Rosenfield 116 (1989) 161
Lellouche, G.S., see Weissman 116 (1989) 187
Lellouche, G.S., The boiling transition: Analysis and data comparisons 116 (1989) 117
Lieb, R.W., Presentation of the Grimsel Test Site 116 (1989) 7

Mincer, P.N., see Rosenfield 116 (1989) 161
Moulin, D., Combescure, A. and Acker, D., A review of thermal buckling analysis methods 116 (1989) 255
Murthy, C.R.L., see Kalyanasundaram 116 (1989) 181

Nodaka, M., see Ishiguro 116 (1989) 61
Noell, U., see Schneefuss 116 (1989) 25

Over, H.H., see Breitbach 116 (1989) 231

Padovani, R., see Cesari 116 (1989) 215
Pahl, A., see Bräuer 116 (1989) 21
Pangborn, R.N., see Zamrik 116 (1989) 407
Papaspyropoulos, V., see Rosenfield 116 (1989) 161
Petney, S.V., see Key 116 (1989) 101
Petrequin, P., see Gauthier 116 (1989) 343
Pineau, A., see Piques 116 (1989) 293
Piques, R., Bensussan, Ph. and Pineau, A., Crack intiation and growth under creep and fatigue loading of an austenitic stainless steel 116 (1989) 293
Ponter, A.R.S. and Carter, K.F., Upper bound methods for use in the design and assessment of axisymmetric thin shells subjected to cyclic thermal loading 116 (1989) 239
Ponter, A.R.S., see Cocks, A.C.F. 116 (1989) 363

Raj, B., see Kalyanasundaram 116 (1989) 181
Ravier, P., see Hittinger 116 (1989) 315
Regis, V. and D'Angelo, D., Advanced residual life methods for improved design and operation 116 (1989) 399
Ricard, J.B., see Sperandio 116 (1989) 415
Rometsch, R., Containment and retention of waste materials: An overview of Swiss projects for the disposal of radioactive wastes 116 (1989) 1
Rosenfield, A.R., Ahmad, J., Cialone, H.J., Landow, M.P., Mincer, P.N. and Papaspyropoulos, V., Crack arrest toughness of nodular iron 116 (1989) 161

Schneefuss, J., Gommlich, G. and Noell, U., The heater test at the Grimsel Rock Laboratory: the thermo-mechanical response of the rock mass to a heat flux 116 (1989) 25
Schubert, F., see Breitbach 116 (1989) 231
Schwartzbeck, R.K. and Kocamustafaogullari, G., Similarity requirements for two-phase flow-pattern transitions 116 (1989) 135
Sonobe, H., see Ishiguro 116 (1989) 61
Sperandio, M. and Ricard, J.B., Detection of significant events and residual life estimation for LMFBRs components 116 (1989) 415

Tayal, M., Modelling the bending/bowing of composite beams such as nuclear fuel: the BOW code 116 (1989) 149
Thomas, K., Creep ratchetting tests and analysis of a pressurized elbow at 593° C subjected to cyclic bending 116 (1989) 199
Thoraval, G., Creep of high temperature steam piping: EDF experience with fossil-fired power plants from 1955 to 1987 116 (1989) 389
Tsunoda, N., see Ishiguro 116 (1989) 61

Umeda, H., see Watashi 116 (1989) 423

Van Dorp, F., see Knecht 116 (1989) 33
Vitale, E., Trends in the evaluation of the structural integrity of RPVs 116 (1989) 73

Watashi, K., Kanazawa, S., Umeda, H., Koide, A., Imazu, A. and Yoshida, H., Creep-fatigue test of a thick-walled vessel under thermal transient loadings 116 (1989) 423
Weissman, J. and Lellouche, G.S., Letters to the Editors 116 (1989) 187

Yanagisawa, K., A study on the behavior of pressurized hollow UO_2 fuel under reactivity initiated accident conditions 116 (1989) 171
Yoshida, H., see Watashi 116 (1989) 423
Yusa, Y., see Ishiguro 116 (1989) 61

Zamrik, S.Y. and Pangborn, R.N., Fatigue damage assessment using X-ray diffraction and life prediction methodology 116 (1989) 407
Zhen Xiangguo, see Fan Jinghong 116 (1989) 307

Nuclear Engineering and Design 116 (1989) 445–446
North-Holland, Amsterdam

SUBJECT INDEX TO VOLUME 116

Thermal and fluid design

The boiling transition: analysis and data comparisons, G.S. Lellouche 116 (1989) 117
Similarity requirements for two-phase flow-pattern transitions, R.K. Schwartzbeck and G. Kocamustafaogullari 116 (1989) 135
Letters to the Editors, J. Weisman and G.S. Lellouche 116 (1989) 187

Engineering mechanics

On the reliability of computer predictions of the geomechanical behaviour of rock-salt, N.C. Knowles 116 (1989) 57
The impact modeling of structures using solid, shell, and membrane finite elements, S.W. Key, S.V. Petney and R.M. Clancy 116 (1989) 101
Modelling the bending/bowing of composite beams such as nuclear fuel: the BOW code, M. Tayal 116 (1989) 149
Modelization of ratcheting in biaxial experiments, C. Guionnet 116 (1989) 223
Upper bound methods for use in the design and assessment of axisymmetric thin shells subjected to cyclic thermal loading, A.R.S. Ponter and K.F. Carter 116 (1989) 239
A review of thermal buckling analysis methods, D. Moulin, A. Combescure and D. Acker 116 (1989) 255
Description of creep–plasticity interaction with non-unified constitutive equations: Application to an austenitic stainless steel, E. Contesti and G. Cailletaud 116 (1989) 265
Quick analysis of inelastic structures using a simplified method, G. Inglebert and J. Frelat 116 (1989) 281
Microscopically based constitutive relations for damage mechanics and creep–plasticity interaction, Fan Jinghong, Huang Jun and Zhen Xiangguo 116 (1989) 307
Computational techniques for inelastic stress and fracture analyses, S.N. Atluri 116 (1989) 329
A damage model for ductile metals, D.J. Bammann and E.C. Aifantis 116 (1989) 355
Creep deformation and failure under cyclic thermal loading, A.C.F. Cocks and A.R.S. Ponter 116 (1989) 363

Materials properties

Trends in the evaluation of the structural integrity of RPVs, E. Vitale 116 (1989) 73
Creep ratchetting tests and analysis of a pressurized elbow at 593°C subjected to cyclic bending, K. Thomas 116 (1989) 199
Modelization of ratcheting in biaxial experiments, C. Guionnet 116 (1989) 223
Experimentally verified creep ratcheting analysis, G. Breitbach, H.H. Over and F. Schubert 116 (1989) 231
Description of creep–plasticity interaction with non-unified constitutive equations: Application to an austenitic stainless steel, E. Contesti and G. Cailletaud 116 (1989) 265
Crack initiation and growth under creep and fatigue loading of an austenitic stainless steel, R. Piques, Ph. Bensussan and A. Pineau 116 (1989) 293
Microscopically based constitutive relations for damage mechanics and creep–plasticity interaction, Fan Jinghong, Huang Jun and Zhen Xiangguo 116 (1989) 307
Structural assessments of creep crack growth, R.A. Ainsworth 116 (1989) 321
High cycle fatigue of austenitic stainless steels under random loading, J.P. Gauthier and P. Petrequin 116 (1989) 343
A damage model for ductile metals, D.J. Bammann and E.C. Aifantis 116 (1989) 355
Creep deformation and failure under cyclic thermal loading, A.C.F. Cocks and A.R.S. Ponter 116 (1989) 363
Fatigue damage assessment using X-ray diffraction and life prediction methodology, S.Y. Zamrik and R.N. Pangborn 116 (1989) 407

Mechanical design, component fabrication and testing

Trends in the evaluation of the structural integrity of RPVs, E. Vitale 116 (1989) 73
Crack arrest toughness of nodular iron, A.R. Rosenfield, J. Ahmad, H.J. Cialone, M.P. Landow, P.N. Mincer and V. Papaspyropoulos 116 (1989) 161
Acoustic emission technique for leak detection in an end shield of a pressurised heavy water reactor, P. Kalyanasunda-

ram, T. Jayakumar, B. Raj, C.R.L. Murthy and A. Krishnan 116 (1989) 181
Creep ratchetting tests and analysis of a pressurized elbow at 593°C subjected to cyclic bending, K. Thomas 116 (1989) 199
In-plane bending test of a piping elbow, F.G. Cesari, G. Ferrari, S. Ghia, and R. Padovani 116 (1989) 215
Experimentally verified creep ratcheting analysis, G. Breitbach, H.H. Over and F. Schubert 116 (1989) 231
Upper bound methods for use in the design and assessment of axisymmetric thin shells subjected to cyclic thermal loading, A.R.S. Ponter and K.F. Carter 116 (1989) 239
A review of thermal buckling analysis methods, D. Moulin, A. Combescure and D. Acker 116 (1989) 255
Structural assessments of creep crack growth, R.A. Ainsworth 116 (1989) 321
High cycle fatigue of austenitic stainless steels under random loading, J.P. Gauthier and P. Petrequin 116 (1989) 343
Creep deformation and failure under cyclic thermal loading, A.C.F. Cocks and A.R.S. Ponter 116 (1989) 363
Creep of high temperature steam piping: EDF experience with fossil-fired power plants from 1955 to 1987, G. Thoraval 116 (1989) 389
Advanced residual life methods for improved design and operation, V. Regis and D. D'Angelo 116 (1989) 399
Detection of significant events and residual life estimation for LMFBRs components, M. Sperandio and J.B. Ricard 116 (1989) 415
Creep-fatigue test of a thick-walled vessel under thermal transient loadings, K. Watashi, S. Kanazawa, H. Umeda, A. Koide, A. Imazu and H. Yoshida 116 (1989) 423

Structural design, construction methods and testing

Some considerations of the use of concrete for radioactive waste repositories, P. Dawson 116 (1989) 45

Miscellaneous

Expert system driven software, M. Hittinger, P. Ravier, A. Bernard and J.M. Fouet 116 (1989) 315

System control and controls

Detection of significant events and residual life estimation for LMFBRs components, M. Sperandio and J.B. Ricard 116 (1989) 415

Nuclear waste management and disposal

Containment and retention of waste materials: an overview of Swiss projects for the disposal of radioactive wastes, R. Rometsch 116 (1989) 1
Presentation of the Grimsel Test Site, R.W. Lieb 116 (1989) 7
Study of excavation induced rock damage at the Grimsel Underground Rock Laboratory, P. Egger 116 (1989) 11
Rock stress measurements in the Grimsel Underground Rock Laboratory and their geological interpretation, V. Bräuer, S. Heusermann and A. Pahl 116 (1989) 21
The heater test at the Grimsel Rock Laboratory: the thermo-mechanical response of the rock mass to a heat flux, J. Schneefuß, G. Gommlich and U. Noell 116 (1989) 25
Concept and design of engineered barriers in Swiss repository projects, B. Knecht and F. van Dorp 116 (1989) 33
Requirements on waste packages resulting from mechanical and thermal impact during the operational phase of a waste repository, H.P. Berg 116 (1989) 37
Some considerations of the use of concrete for radioactive waste repositories, P. Dawson 116 (1989) 45
On the reliability of computer predictions of the geomechanical behaviour of rock-salt, N.C. Knowles 116 (1989) 57
Experimental approach to performance of engineered barriers under repository conditions, K. Ishiguro, K. Kawamura, H. Sonobe, M. Nodaka, T. Arai, Y. Yusa and N. Tsunoda 116 (1989) 61

Core physics and fuel design

A study on the behavior of pressurized hollow UO_2 fuel under reactivity initiated accident conditions, K. Yanagisawa 116 (1989) 171

Nuclear Safety

The boiling transition: analysis and data comparisons, G.S. Lellouche 116 (1989) 117
Letters to the Editors, J. Weisman and G.S. Lellouche 116 (1989) 187